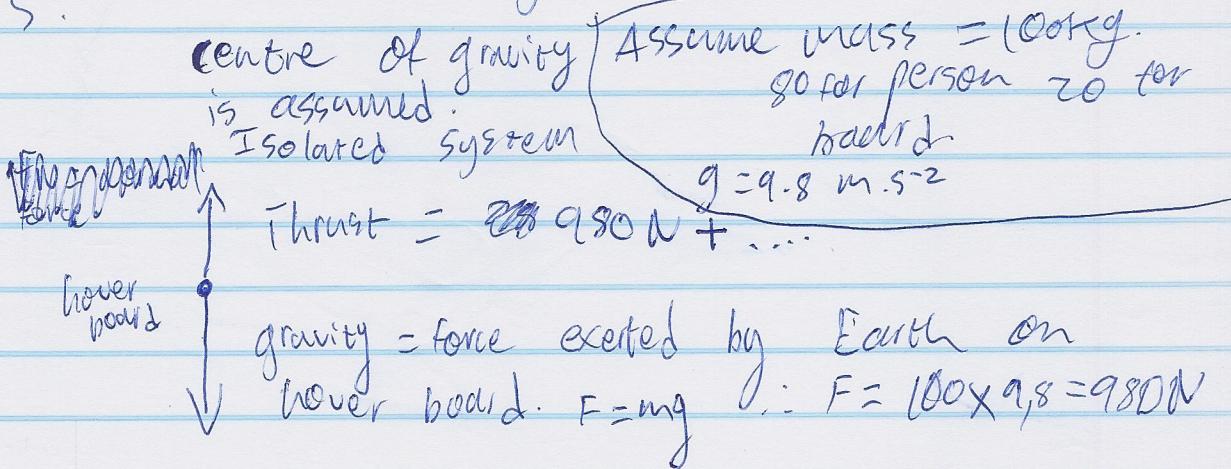


ILEN Project 1.

Skateboard Aerodynamics

physics.



Hover Thrust = 980 N (g.s⁻²) ; $a = 0$.

If it should hover 0,5 m off the ground.

$$\begin{aligned} \therefore E_p &= E_k = 0. \\ \therefore E_p &= \frac{1}{2} mgh. \\ \therefore E_p &= (100)(9.8)(0,5) \\ &= 490 J. \end{aligned}$$

$F = ma$. Then add to specific height.

See Aerodynamics.

ELEN project 1

DefN Hover.

estimate cost, specs, supplier.
Drawings by hand + CAD.

Need budget.

Safety 30km/h wind. blowback. how person stay on it.
Control / stop

Give high level design not really circuicry.
All calc for parts.
Suppl detail.

Appendix Not page limit.
No Double Sided

Referencable
Tech.

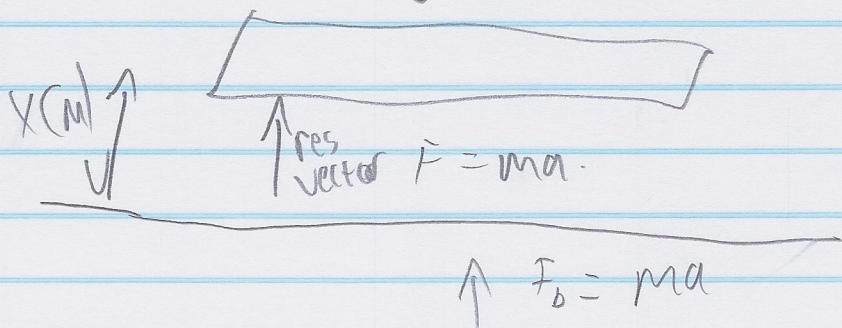
#1
3

Mention Assumption
made.

Physics.

$$g = 9.8 \text{ m/s}^2$$

$$\downarrow F = mg$$



Centre of gravity

can be
assumed.

{ PO DOT.

Isolated
System

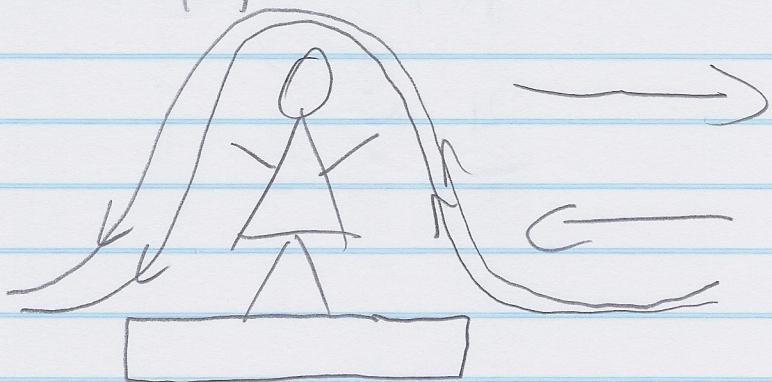
$$m(kg)$$



Movement sideways + \uparrow boats steering -
Also hover.

ELEN Project 1.

#2



wind wind drag

studies person 30kmh.
plausible 30kmh without
killing.

Jet

Turbine/wind

wings,

magnets

Tachos

water wheel:
space Thruster

User Interface.

surfboard is not right design
Air density.

No control panel

segnaly tech

plate, each switch

micro implant.

weight, accelerometer sensor.

with corner weight compensation
emergency break.

PSU.

* Existing infrastructure

Control Diagram

Block Diagram.

appropriate eqn+calcs.

Matlab simulation

Centre of gravity.

board = super airp

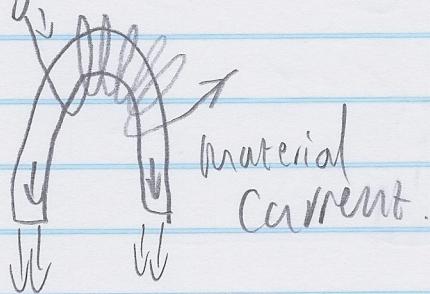
Lifetim.

Max height.

#3

ELEN Project 1.

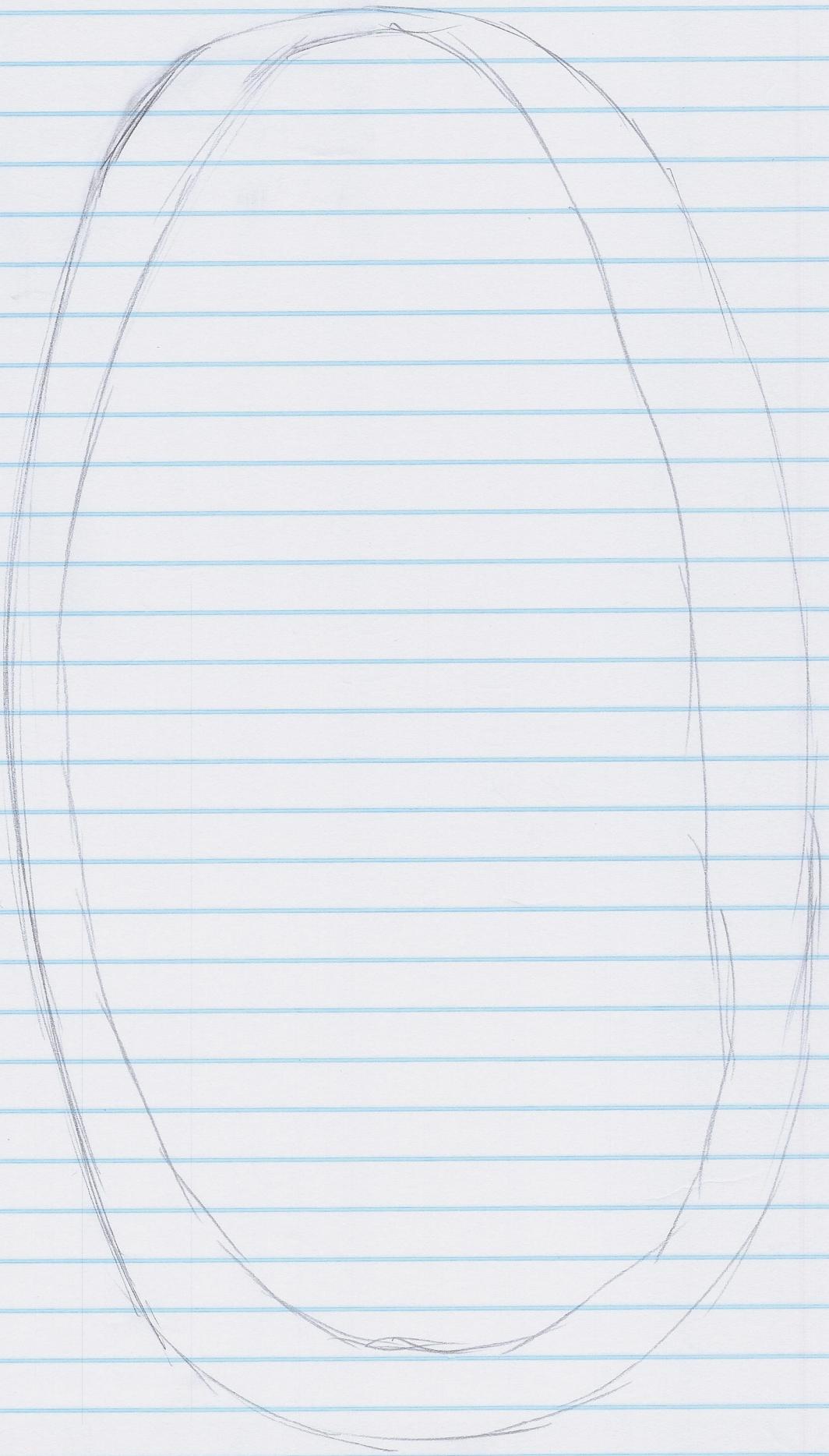
electromagnet.

Ret inu idea. Anyone std num:

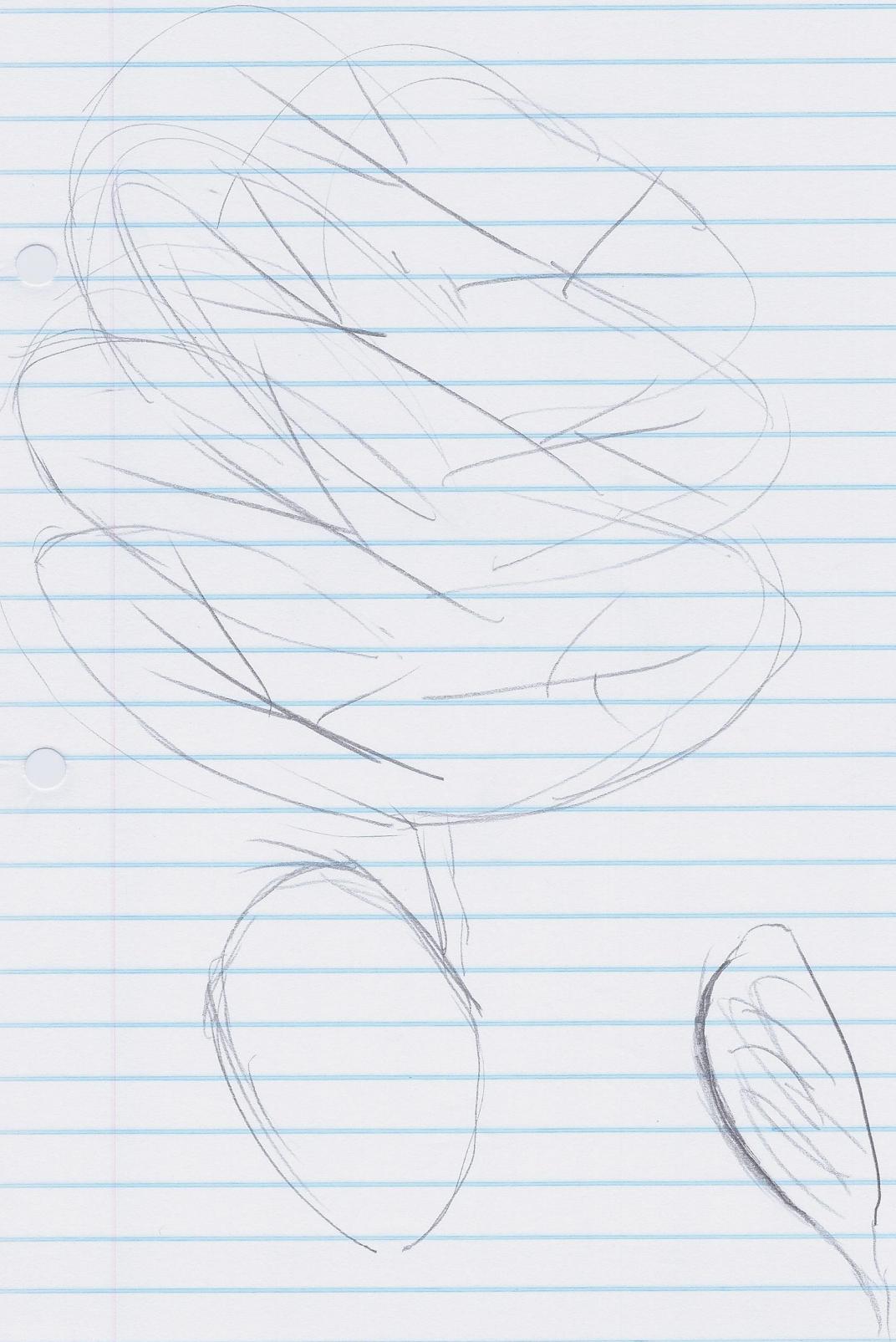
oral presentations have to come both days.

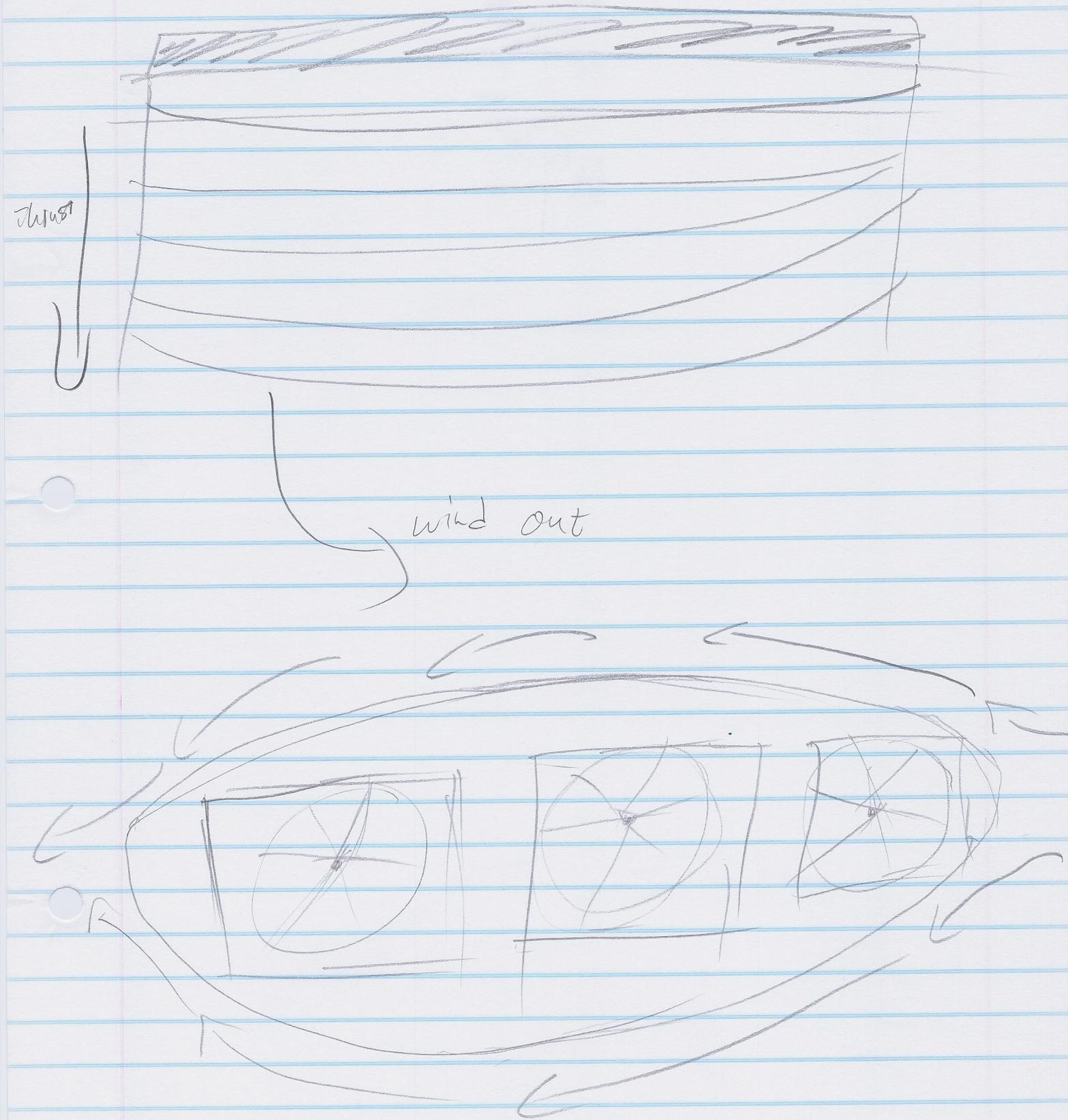
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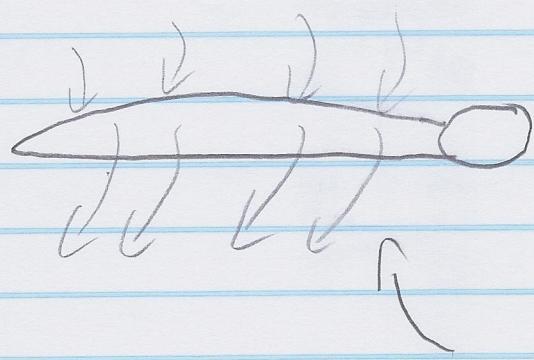
Elen project 1 Hoverboard



Elen proj 1







curved black
wind pushed
down
and egg.

